

Figure 1

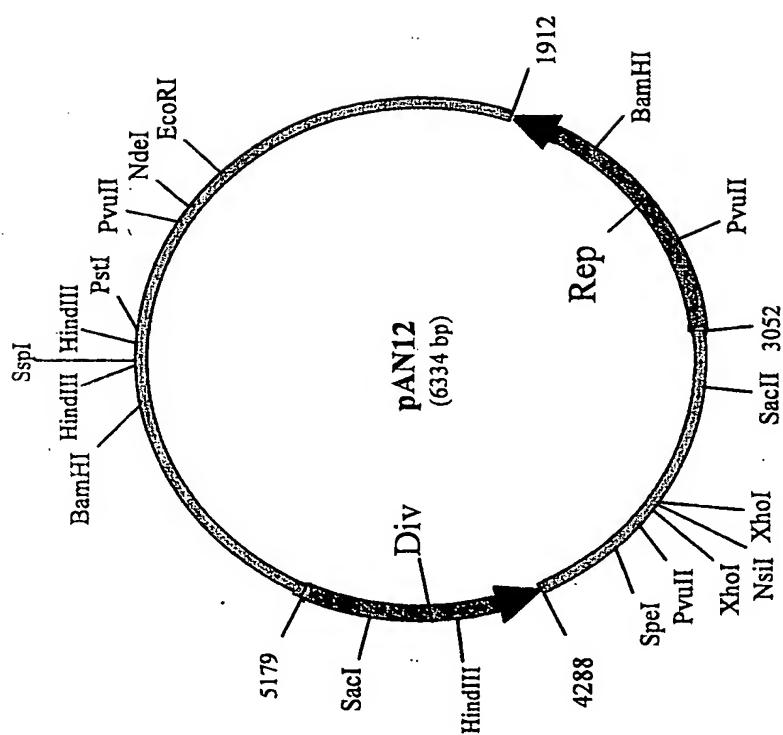


Figure 2

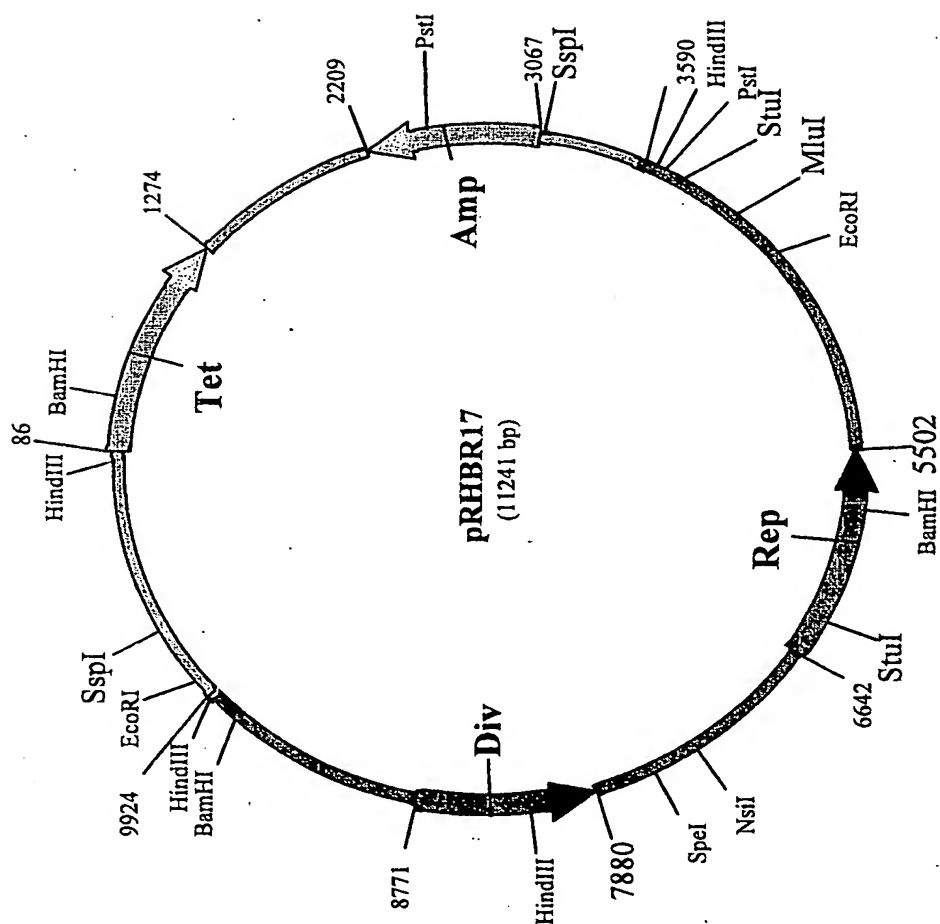


Figure 3

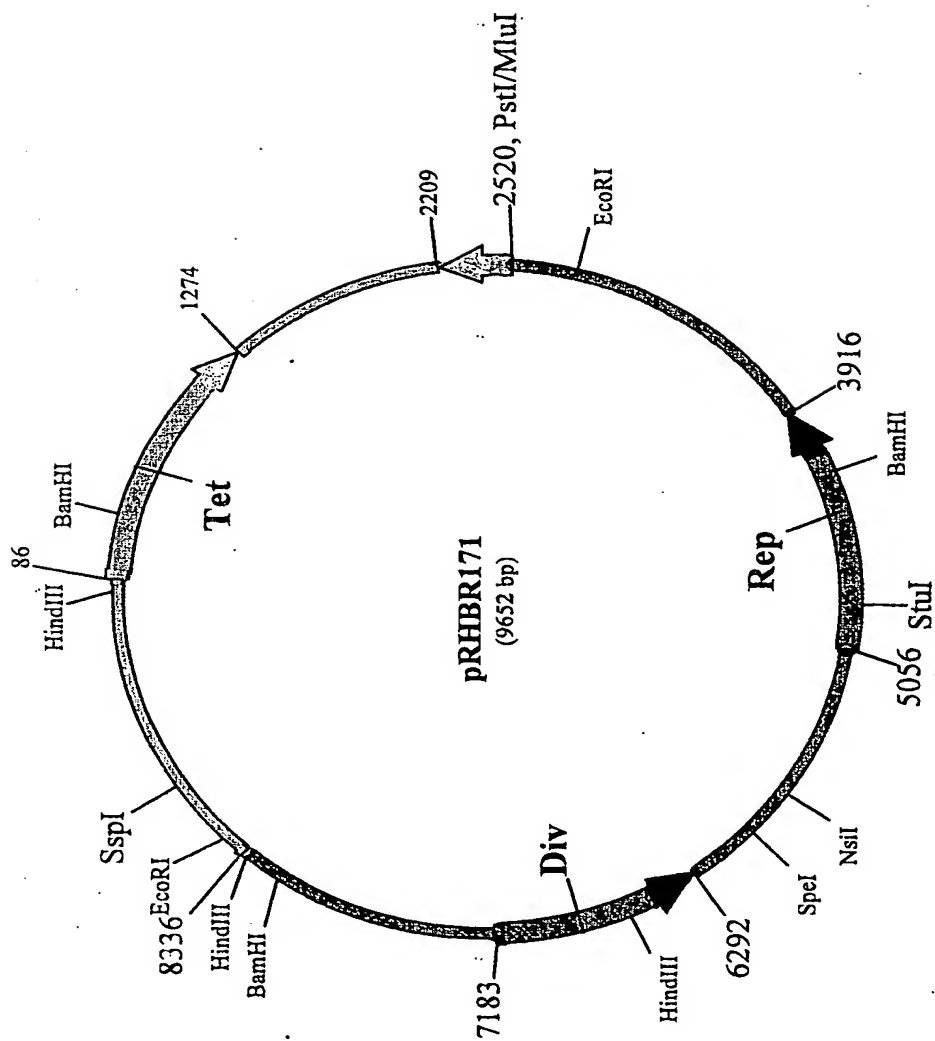


Figure 4

A Replication proteins

|        | Motif IV       | Motif I       | Motif II      | Motif III      | Motif V                    |                |
|--------|----------------|---------------|---------------|----------------|----------------------------|----------------|
| PAN12  | 73 CGKGMICPCC  | 109 MVTMTMRH  | 168 HVHVHAILM | 229 LAAYLTRIAS | 277 WREFEFGSMGRRRAIAWSEGLR | --SEQ ID NO:5  |
| PAP1   | 143 CGSVWACPVC | 180 MLTILTPRH | 239 HVHSHVLI  | 314 IGNYVSKMT  | 366 WKEYEKASFGRRALTWSEGLR  | --SEQ ID NO:21 |
| PIJ101 | 25 CGRIWLCFVC  | 62 LVTFTARH   | 148 HPHIHAIWL | 225 LAEYIAKTQD | 289 WHEYERATRGRRRAIEWTRYLR | --SEQ ID NO:22 |
| PJV1   | 43 CGRIWFCPEC  | 80 VVWLTARH   | 184 HPHLNLVLF | 272 LIEYLTAKND | 353 WAQYEEALAGRRRAIEWTRGLR | --SEQ ID NO:23 |
| PSN22  | 25 CGRIWLCFVC  | 62 LVTILTPRH  | 148 HPHIHAIWL | 225 LAEYIAKTQD | 289 WHEYERATKGRRAIEWTRGLR  | --SEQ ID NO:24 |

B Origin of replication

|      |                               |                  |                  |
|------|-------------------------------|------------------|------------------|
| 574  | GTGCGAAAACTGGA-               | CAGCT-GGCTACACTA | ---SEQ ID NO:8   |
| 1696 | GAGGCAAAAGCGAA-               | CACCTTGGCAAGAAA  | ---SEQ ID NO:125 |
| 1668 | CTGGCAAAAGGGA-                | CGCCTAGTAAAGTT-  | ---SEQ ID NO:126 |
| 7805 | GACCCAAAACTGTGCGGCTTGGCAAGAAA | ---SEQ ID NO:127 |                  |

